

INTERNATIONAL SEARCH REPORT

Inten Application No
PCT/GB2004/003863

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04R1/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/30151 A (CROSS ROBIN CHRISTOPHER ; NEW TRANSDUCERS LTD (GB); HAWKSFORD MALCOLM) 11 April 2002 (2002-04-11) cited in the application page 2, line 16 – line 23 page 4, line 6 – line 12; figure 6 -----	1,12
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 03, 3 April 2002 (2002-04-03) & JP 2001 320790 A (TEMUKO JAPAN:KK), 16 November 2001 (2001-11-16) cited in the application abstract ----- -/-	1,12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the International search

7 December 2004

Date of mailing of the International search report

14/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax. (+31-70) 340-3016

Authorized officer

Gerken, S

INTERNATIONAL SEARCH REPORT

Intel. Application No.
PCT/GB2004/003863

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 0051, no. 59 (E-077), 14 October 1981 (1981-10-14) & JP 56 089200 A (MATSUSHITA ELECTRIC IND CO LTD), 20 July 1981 (1981-07-20) cited in the application abstract	1,12
A	EP 0 351 461 A (SCHREIBER SIMEON B) 24 January 1990 (1990-01-24) abstract column 7, line 51 - column 8, line 18; figures 5,5a	1,12
A	PATENT ABSTRACTS OF JAPAN vol. 0082, no. 68 (E-283), 7 December 1984 (1984-12-07) & JP 59 139786 A (MATSUSHITA DENKI SANGYO KK), 10 August 1984 (1984-08-10) abstract	1,12

INTERNATIONAL SEARCH REPORT

 Inter. Application No
 PCT/GB2004/003863

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0230151	A	11-04-2002	AU CN WO TW US	9012201 A 1465206 T 0230151 A2 536920 B 2002039427 A1	A T A2 B A1	15-04-2002 31-12-2003 11-04-2002 11-06-2003 04-04-2002
JP 2001320790	A	16-11-2001	JP AU WO	3556151 B2 4466701 A 0187007 A1	B2 A A1	18-08-2004 20-11-2001 15-11-2001
JP 56089200	A	20-07-1981	JP JP	1444507 C 62051040 B	C B	08-06-1988 28-10-1987
EP 0351461	A	24-01-1990	US EP	4791673 A 0351461 A1	A A1	13-12-1988 24-01-1990
JP 59139786	A	10-08-1984		NONE		